

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: skw9nqp@aztec.asu.edu (STEVE KALAFUS)
Subject: [7177] 30 Meter Propagation
Message-ID: <9604160423.AA07318@aztec.asu.edu>

This evening at 2:25Z on approximately 10,104 I heard EM1KA calling CQ. I was not able to raise him and wonder if anyone else on the list did or if someone could tell me where he is located. I could not find the prefix EM on my list of DXCC countries.

--

----- Steve Kalafus W9NQP -----
Phoenix, Arizona
skw9nqp@aztec.asu.edu
packet: W9NQP@KC7Y.AZ.USA.NOAM

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: mizrahi@svlhp8.scs.philips.com
Subject: [7195] 40-9er mod, barber's shaver and carbon stones
Message-ID: <9604161704.AA12332@svln20.scs.philips.com>

Since there is a long story here, the mod is simply to add an 8 Ohm resistor in series with the inductor RFC1. That's it.

Now to the fun part.

Some time back I posted a message regarding the impact of the paralel L/C circuit in the receiver front-end on the transmit power.

I went back to investigate this problem yesterday. The paralel L/C should have, in theory, a very high impedance at resonance. The 22pF capacitor coupling to that circuit has about a 1 KOhm reactance. The theory I had before just didn't seem to hold.

I decided to simulate the pi network and the paralel L/C circuit interaction when fed by a generator (simulated transmit mode).

There it was, a huge dip of the output at the antenna terminals coinciding with the resonance frequency of the paralel L/C!!!

After some discussions with Jeff KD6MNP we ended up with the conclusion that what we have here are two loosely coupled resonant circuits. The paralel L/C behaves in this case as an harmonic dampener, absorbing energy from the pi network and the load (there's very little in the literature, but try Terman if you have it).

So now, if you didn't know it already, your 40-9er shares something with a barber's shaver and your common car's mechanicals!

Why didn't this show up in other QRP designs? I think this is due to the receiver muting method. The 40-9er uses a diode to mute the incoming RF signal, but that diode is at the NE602 chip, relying on it for DC bias.

This saves parts, but leaves the paralel L/C connected to the pi network during transmit!

Reviewing the Norcal 40 schematics you'll find that the mute circuit is before the peaking circuit in the receiver. The NN1G uses a diode isolation circuit, also ahead of the receiver circuitry.

So what's the cure?

I was ready to insert a PIN diode circuit before I started my simulations, in order to isolate the receiver circuitry during transmit - lots of parts... but given the nature of the problem, I figured that lowering the Q of the L/C circuit can do some good, and indeed the simulation confirmed it.

I chose to go with an 8 Ohm resistor in series with the inductor RFC1.

The fix works like a charm.

But then - a big surprise!

I used to have a real problem with a BC station at 7.425 MHz booming in at night - it's gone now! I shorted the extra resistor, and there it was again. Maybe that signal was picked up not through the antenna but rather in the receiver front-end circuit. Whatever the theory is, sure seems like I killed here lots of birds with one carbon stone...

The tuning of the transmitter becomes unnecessary after this mod, so I truly recommend to try it.

I don't have the boards from Norcal, but all it takes is to unsolder one side of RFC1, solder the 8 Ohm resistor to it and then solder the other side of the 8 Ohm resistor to where the RFC1 lead was previously connected.

73 DE ORI AC6AN

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996

From: adams@chuck.dallas.sgi.com (chuck adams)

Subject: [7201] 40M

Message-ID: <199604161818.SAA03703@chuck.dallas.sgi.com>

On the topic of bands.

At 0550Z last night (Monday) I had just finished working on some stuff on the computer and turned on the OHR E2 (Explorer 2, my abbreviation). Oh, that's Tuesday 1230 a.m. local CDT.

Now I've been on 40M since 1957. I do not to my recollection ever and I mean ever remember/recall/or whatever being able to tune from 7.000MHz to 7.070MHz (as much as the E2 allows) and not hear a single dit. Not a one. Deader than a doornail. (TX phrase?)

Well, not to be discouraged. I could use some practice on the old fist, I fire up the keyer and proceed for 10 minutes to call

CQ without the aid of the memory and auto-beacon mode and all that dweeb stuff. Did it the old fashioned way (well almost!) I pushed the paddles gently back and forth. I had also switched rigs to the SWL-40 just to see if I had lost something in the E2. No, same dead band, but I'm not one to give up that easily.

All this effort was finally answered by one of our very own, AA1MI in NH. A rare state and a rare find all in one fell swoop. Paul in Rye --- is that with or without Mayo? Formerly N1UEX. :-)

Thanks Paul. QSO didn't last, but we did RST, Name, and QTH's. That's enough. His 559 to 339 and my 339 RST values.

So what's the point (for that need such things), if you don't hear activity then generate it. Not to extremes mind you 'cuz 10M at 1 in the morning may be going too far. :-) And I knew 30M was not in the running.

Does it bother people that I type 40M? Should I use the proper and standard 40m? Did I just answer my own question?

dit dit

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Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: stelpony@ix.netcom.com (Steel Pony)
Subject: [7221] 49er and sidetone.....
Message-ID: <199604162355.QAA12861@dfw-ix10.ix.netcom.com>

Hi Gang:

Waiting as fast as I can for my 7.122 rock for the 49er(sigh).

QRPP(NorCal club Newsletter) has an article by David, WA6BOY, in Vol I, No. 3, Dec. '93 entitled "The Pixie 2". It gives the data for a '555 timer chip as a sidetone circuit. (Note: These yearly reprints are available from NorCal at a nominal cost. They are like Handbooks for Qrp.)

The NE-555 is available also in CMOS(low power consumption). I realise you "Old Timers" are aware of this info and this is a post for the Newcomers.

Tnx es 72
John-N5INZ

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: prvalko <prvalko@oakland.edu>
Subject: [7233] 49er On The Air
Message-ID: <Pine.OSF.3.91.960416221754.7648B-1000000@saturn.acs.oakland.edu>

Gang!

Stamp my 49er "APPROVED!" I just worked another Paul - AA1LL abt 50 mi NW of Boston with my 20-hour-old 49er! I am soooooo geeked up, well... I guess not really all that much more than normal :-)

Qualifies for 1000 mile per watt right outta the shoot.

MAN, that 100hz TX offset is a son of a gun!

Thanks to Wayne, NorCal, Bob Kellogg (for the toroid form) and the QRP-L for the support and fun.

I love you, man.

73! =paul= wb8zjl

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: KK5DB@aol.com
Subject: [7232] 49er Type A and B boards
Message-ID: <960416214830_192552472@mail06>

I have been reading the 49er mods listed on the qrp-l trying to find the difference between the rev A and rev B boards. The latest issue of QRPP has what appears to be a rev A board. Whats the difference? Does it make much difference?

72/73 Dennis, KK5DB

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Mike Cloud <cloudm@mhsgate.meth-mem.org>

Subject: [7189] all gone es tnxs

Message-ID: <1272733101172C16@mhsgate.meth-mem.org>

Well the radios, antennas, and assorted other surplus items are gone, either to members of this list or at the new Tupelo Hamfest last weekend. The QRP+ I bought from fellow list member WB1CWD arrived and is all or better than I expected. So keep an ear out for KR4IT on or around 7040 and 10115.

I did pick up and the hamfest a rather curious item that I felt might be of some interest to fellow qrp-l'ers or others of the sort. I could not help picking up a fer-real, vintage 1944, U. S. Signal Corp, and so marked, 300w AC 2-stroke gasoline powered generator. The thing is in absolute mint condx having lived in a garage since at least 1952. It is, of-course, army green, has a heavy canvas cover with handle, and two attached boxes filled with spare rings, bolts, covers, etc all in individual oil-impregnated parchment-like envelopes. The engine is a "Jacobsen" single cylinder 2-stroke lying horizontal directly attached to a small generator just a bit bigger than a modern car alternator. The oil-gas mixture is 1:16. While I didn't put it on a scale, it feels like abt 40-45 lbs. Believe it or not, this little bear fired up on the first pull of it's starter rope (no recoil starter here, hihi). I proceeded to hook the hedge clippers up to it and trim the vegetation in the back yard. Seemed to run forever on the approximately quart of oil-gas mixture I put into it.

Any thoughts abt this thing are appreciated. Is it common? What does the group think abt field days uses, etc? I would really hate to wear out something of real value to someone else. Basically I feel more like a keeper and care-taker instead of an owner, hi hi.

.... de Mike, KR4IT

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996

From: prvalko <prvalko@oakland.edu>

Subject: [7213] Altoids Pictures

Message-ID: <Pine.OSF.3.91.960416165110.9908B-1000000@saturn.acs.oakland.edu>

Gang,

I have send Steve a couple jpgs of my just-completed-last-night 49er (in an ALT0IDS case, naturally). With luck, he'll be kind enough to post them on the QRP-L web page.

There is also a fuzzy picture of my rare and beautiful Ten Tec PM-1, the original Ten Tec Tranceiver. I'll buy some film and retake some shots of my Ten Tec Collection for the QRP-L Homepage with my Nikon - Polaroids

just don't cut it.

73 =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Jeffrey Hetherington <jhetheri@freenet.npiec.on.ca>
Subject: [7178] Another question ...
Message-ID: <Pine.SGI.3.91.960416005820.10756C-100000@freenet.npiec.on.ca>

Hi guys. I hope you don't mind yet another question from me. This time I was wondering if anybody could tell me the dimensions of the Whiterook key and paddles. I have followed previous threads about the Whiterook products, but don't recall (didn't write down) the physical dimensions.

Tnx, 73/72
Jeff - VA3JFF

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L. JEFFREY HETHERINGTON
Niagara Falls, Ontario, Canada
E-Mail : jhetheri@freenet.npiec.on.ca

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Byron8LCZ@aol.com
Subject: [7173] ARCI Spring QRP contest
Message-ID: <960415233352_272837311@mail06>

Hi QRP testers,

Poor propagation, storms all over the country and not much activity all added up to make this a tough contest to warm up to. We had some rain at the start on the contest on Sat morning, then elevated noise levels for the rest of the weekend. WWV hovered around the 68 to 70 mark. Saturday I worked 12 hours to make 83 contacts pretty much evenly divided between 20 and 40 meters, with a single contact on 15m (HP1AC) and five contacts on 80m. 10m was dead the whole weekend, as far as QRP contesting goes. Sunday only gave up 22 contacts for close to 12 hours of listening/operating. The worst qso rates were either 0 or 1 qso's per hour, the best was 15 qso's per hour at 0100-0200z on Saturday evening. Didn't hear Ernie W8MVN in there very much, just for a few hours. The "most heard" stations were Bob N4BP, Al K0FRP and Bill K5ZTY.

Didnt hear any of the locals: N8CQA, K8DD, AC8W, WK8S but did work Walt WB8E (he lives 3 miles from me) and heard Bill AA8LZ but couldnt work him. I wonder if anyone got our calls confused ? WA8LCZ and AA8LZ

Heres the break down:

80m	6 QSO's
40m	49 QSO's
20m	48 QSO's
15m	1 QSO
10m	none

33 of these 105 Q's were by non ARCI members running QRP. Looks like we need to do some serious recruiting.

at first glance, its $409 \text{ qso pts} \times 54 \text{ S/P/C's} \times 7 \text{ (5 watts)} = 154,602 \text{ pts}$

Not my worse ARCI contest but certainly in the running. while waiting for the band to perk up on

Saturday, I tuned around on other bands and worked S92SS Sao Tome Africa (he came back to me after two calls) and heard V73C in the Marshall Islands (worked him a couple of weeks ago, so didnt bother calling him again). I still cant figure out how the band can be so bad for local traffic and still produce DX like this.

rig: Kenwood TS-450 at 5 watts w/ 500 hz I.F. filter

dsp: JPS NRF-7

scaf: MSC Smart Filter

ant: Gap Titan vertical

key: Schurr Profi

keyer: AEA Morse Machine 3

Worked a bunch of QRP-Listers like Al K0FRP, Bob N4BP, Bill K5ZTY, Rick VE6GK, Dennis K3ETS, Floyd NQ7X, Dave AC5GY and others.

72, Byron WA8LCZ Detroit

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996

From: Jerry <jfelts@rapidcity.com>

Subject: [7216] ARG0 556 QRPP?

Message-ID: <199604162219.QAA00399@host1.rapidcity.com>

Anybody got any ideas on making the Argo 556 go down into the mw range. The lowest power output I can get on mine is about 1.5 watts. I'd like to be able to take it down to 50mw or lower.

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>
Subject: [7186] Boxes
Message-ID: <5D75E96C6B@iunhaw1.iun.indiana.edu>

Am looking forward to getting my B version board and getting my 49-er on the air. I did get the A board but everybody thought B was better so I will go for it.

Everybody talks about putting it in an Altoids box and I have two right here waiting for me to use them. Do you have your Altoids box?

If not, Walgreen's has them on sale this week. Normally they are \$1.99 a box. This week, they are 2 for \$3.

72 de WB9NLZ

Timothy A. Stabler, Ph.D.
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(219)980-6718
FAX: (219)980-7125

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "S. Miller" <smiller@motown.ge.com>
Subject: [7193] Cascade questions
Message-ID: <199604161645.MAA29013@bear.motown.lmco.com>

Hello to fellow Cascade builders, users and developers. What (maybe the better question is where) are the current developments on the Cascade. Mine is only partially finished as I was heavily impacted by my job late last year and so far all of this year (the defense sector seems to be in convulsions in general) so when I got the latest issue of QRPP and read the 40-17 conversion article I got pretty concerned about the mistake called out in the circuit board by the author. I don't recall seeing anything about that in the DOCS I had gathered by the end of '95 and since then I have been postponed from the list so I really need to catch up. Any and all help would be greatly appreciated. Also, where can I get the on-off switch? Is there an RS part that will work. My kit did not have one. Obviously, I am working around it but a more long range solution would

be better. Where are the Cascade folks hanging out on the air?
Steve Kd2Ed
smiller@motown.ge.com

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: bfollett@ditell.com
Subject: [7225] FCC Ruling
Message-ID: <199604170027.SAA21201@orion.ditell.com>

Gang:

Without Comment...

<<"Save our souls," already all but forgotten, has finally joined the archives of wireless history. The Federal Communications Commission (FCC) last Friday eliminated the requirements that ships carry a manual Morse code radiotelegraph.>>

73, Bob

Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 Home Office E-mail: bfollett.ditell.com

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [7181] Fox 1995 Season Tally
Message-ID: <199604160540.FAA02414@chuck.dallas.sgi.com>

Gang,

Here are the final results.

First three places:

NA5K Smitty with 81 contacts as fox [MXM Transceiver]
N6ULU Stan with 23 contacts with a fox [GM-xx Transceiver]
WA9PWP Paul with 23 contacts with a fox [GM-30 Transceiver]
Paul came from a long way back in the pack and got real serious.

Fourth Places (they all were close):

W6ZH	Pete	with	21 contacts with a fox	[one year QRPp sub/extension]
K5UP	Glen	with	20 contacts with a fox	[one year WorldRadio sub]
AK5B	Bob	with	20 contacts with a fox	[one year ARCI membership]
W5HNS	Henry	with	18 contacts with a fox	[one year ARCI membership]
AB5OU	Tim	with	18 contacts with a fox	[one year QRPp sub/extension]
W00Q	Marty	with	16 contacts with a fox	[a MI-QRP mug]
W3PM	Gene	with	15 contacts with a fox	[a ARCI mug]
K2NF	Norm	with	15 contacts with a fox	[a MI-QRP mug]

My heartfelt thanks to the prize contributors (and I'm missing the email, but will follow up with name and call of the 7 for one of the ARCI memberships.) It's at the office. What makes this work is the participation by the group. The small prizes for such hard work is minor compared to the joy of working fellow members on the air. It's more personal than email IMHO.

MXM Transceiver	-	Bruce Williams, WA6IVC
2 GM-xx Transceivers	-	Chuck Adams, K5FO
QRPp Subscriptions	-	Doug Hendricks, KI6DS, and Chuck Adams, K5FO
WorldRadio sub	-	Richard Fisher, KI6SN
ARCI Membership	-	Mike Dooley, KE4PC
ARCI Membership	-	the missing 7-call
2 MI-QRP mugs	-	Paul Valko, WB8ZJL
ARCI mug	-	Paul Valko, WB8ZJL
Certificates to all	-	Chuck Adams, K5FO

(text written by a member of the group, so don't freak out when you get it. :-))
 I'm sure that those who aren't part of this group will wonder just what it is.
 No numbers and no "this is first place".
 If your address is not up to date in the FCC database you had better let me know by noon tomorrow. Please. April 16th.

Printer gave up the toner in the middle.

If I left anyone out, I'll hear about it. We'll have it for 30M or something.

For those new to the group - summary. Not the usual foxhunt, a station gets on the air (40M only) (usually two per week) around 7.040MHz for two hour period preannounced and works as many stations as possible. It's not a hide the transmitter type activity as DF foxhunts go. We don't do weekends 'cuz that's not the purpose of the activity and weekends usually have some other contest going anyway. This was the second year and this madness started by Chuck Adams, K5FO, to generate activity and "friendly" competition. Has cost some time and money, but darn well worth it. Wait til October and we'll do it again. Big Winners

from previous sessions will not be allowed prizes in following contests in order to spread the wealth around. :-) This is a new rule, as N6ULU got two years running. The winners proved their antennas, rigs and operating skills, so we'll let the next guy have a chance.

I have had numerous requests for other bands and weekends, but we just can't do it. 40M is the most popular during winter and where the rigs like the NorCal 40's, etc. are popular. High bands are dead at night most of the winter. So let's not spread ourselves thin.

Totals		Fox	
---	-----	-----	
81	39+42	NA5K	Smitty
75	35+40	NA5N	Paul
57	36+21	AA4XX	Paul
52	27+25	N6ULU	Stan
45	28+17	AB50U	Tim
43	14+29	WW7Y	Steve
43	23+20	K5FO	Chuck
40	20+20	WA3NNA	Pete
35	26+ 9	AA0XZ	Greg
34	14+20	W03B	Bob
31	25+ 6	WA4NID	Dave
28	18+10	WB8ZJL	Paul
27	15+12	WB3GCK	Craig
26	5+21	WJ2V	Preston
26	5+21	VE7CQK	Paul
23	10+13	N4A0X	Clay
22	20+ 2	N2CX	Joe
18	12+ 6	KV2X	Tom
17	9+ 8	NN9K	Pete
9	6+3	N9UXU	Dave
	36	KK6MC	Duffey
	18	KJ4XR	Ken
	7	NQ7K	Mike
	15	WB4ZKA	Mike

-- number of times a fox was worked in parenthesis if >1

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0 -- W00Q(16) AA0XZ(8) KB0WZ(7) KB0LMQ(3) NG0N(3) AA0XI(3)
    AA0YU(3) N0OCT WI0W NF0R KB0PBQ KI0G AA0QU AA0VF W0KQC
    N0UVR KC0OS N0TFI N0WM WB0WQS AB0AE
1 -- W1HUE(9) KC1FB(5) AA1IK(5) KC1GS(3) AA10C(2) WA1GUV(2)
    KC1DI N01E N1QPR WA1LNP N1RXT WA1KPB
2 -- K2NF(15) KC2DU(10) AA2WJ(7) AA2PF(6) N2MNN(5) N2CX(3)
    N2KPY(2) KV2X(4) N2KPY N2CX WB2SXN WJ2V N2VPK(2) KF2PH

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WZ2T KE2WB(2) KF20N N2VPK N2GO(2) N2WLQ N2YRJ K2VNM
 WA2BMQ K2SJB

3 -- W3PM(15) N3KFL(12) WA3NNA(5)
 WA3YON AA3AV W03B(3) K3TKS(3) KA3EAJ(2) N3PM WA3JPG
 KA3WMJ K3ETS(3) K3VOA AA3EJ WB3GCK WA3BHM

4 -- NZ4I(11) N4AOX(5) K4JPN(2) KC4EWT(6)
 KE4PC WB4TPW(6) WA4KAC(2) KM4LT AB4EL(2) WB4BDS(2) WB4TBW
 KD4HZ WD4MPS(4) AC4HF AA4YZ KF4DNL WB4ZKA AE4IC(8)
 WJ4P(4) WA4FTM KJ4XR N4XXR NR4N(2) N4EUK AD4ZE(3)
 KT4HB WB4TWE KC4URI K4CGY(2) N4UCM KE4HNS AA4YZ
 KS4XS N4EKP

5 -- K5UP(20) AK5B(20) W5HNS(18) AB5OU(18) KC5EQC(14) KK5KX(6)
 KA5T(11) KK5RO(12) K5FO(2) NA5K(5) KA5DVS AB5DG AB5EU
 WD5GNW(2) KI5EZ KK5NA(2) WA5WHN K5ERJ(3)
 AB5TZ(5) AB5QE(3) KB5AA KC5FGE W5XE(2) W5RMZ WB5QMP(6)
 N5SS AB5WB WB5IRI(3) AB5UA(9) WA5YFY WA5ZTP
 WB5LXA WB5FKC KF5IU N5OCD(2) KF5IV W5TEH(2) N5GW AB5B
 AC5BC KC5RAS KB5YIX KC5GTQ AA5EA KC5EQK NA5N
 W5TTE AB5AA(2) KB5OB(2) KK5RD KK5HA

6 -- N6ULU(23) W6ZH(21) NU6U(5) AB6DG(11) KK6MC(8)
 WA6HHQ(2) WA6MOK(2) KE6YAR WB6HQK(2) WA6HUE(2) AC6IY(5) WB6Q N6SSQ
 WI6I N6GA N6WG(4) KC6EIJ N6MM(6) AC6KW K6VNX(7) KO6KA(4) AA6XZ KQ6AG(3)
 WB6TJF K6CA K6QQ W6BAB(2) WA6NAE(2) K6UNO AC6PI(2) W6DVO K6VNK KO6CL

7 -- WW7Y(12) N7MFB(2) AA7QU(5)
 AL7GQ NQ7K(5) AA7QY(8) AB7JX(4) WA7FCU(8) KD7S
 AB7HI(2) KB7SOK KC7AKW N7RMQ KC7NEV(3) NQ7X(10)
 KG7WS NQ7B AA7TQ(3) WT7F(4) KJ7DN W7WC

8 -- N8ET(2) WB8ZJL(7) K8DD(6)
 WB8AJD N8VAR(5) KF8EE(2) WB8RUQ KF8SG
 WA8ALX WB8E(2) WA8ZOF WK8S KB8LFQ W8BE WB8APR

9 -- WA9PWP(23) KB9IUA(4) K9DZE(7)
 W9LTL N9DD AE9K(2) WA9YLB NN9K(5) WB9LKC(7) AE9F(2)
 KA9NSA WB9QDL N9XVZ WD9EYB N9SAI AB9W NN9H KC9RH

DX-- VA3TAR(2) VE3DNL(6) VE7CQK(5) VO1CRB VE5VA(2) VA3TAR
 VE7CTN VE7FJE

--

Chuck Adams (K5FO CP-60) adams@sgi.com
 Box 181150, Dallas, TX 75218-8150

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
 From: Richard Schneider <74602.3317@compuserve.com>
 Subject: [7183] FS: Ten Tec Omni-D HF Xcvt
 Message-ID: <960416123508_74602.3317_EHH80-3@CompuServe.COM>

FOR SALE: TEN TEC OMNI-D HF TRANSCEIVER AND POWER SUPPLY

JUST REBUILT BY TEN TEC. EXCELLENT CONDITION.

160-10 Meters. Can add 30 Meters and one other band. Superb starter rig.

80-100 Watts Output. CW and SSB. Excellent filtering for CW. Can crank power down to MW level for QRP and QRPP operation.

POWER SUPPLY: TEN TEC 280 W/2 12V AUX OUTPUTS AS WELL AS MAIN OUTPUT.

\$600 plus Shipping.

73 Dick/KB0SRV..

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996

From: Dennis Terribile <wr4i@nando.net>

Subject: [7176] Gentleman's xtest..

Message-ID: <9604160418.AA19300@nando.net.nando.net>

Hi Guys..

My first post here but couldn't help adding some bytes to the bits..

Like many others, had family obligations (visiting relatives),etc..but did manage to sneak to the basement and throw the switch to the NorCal40a. The highlight of the test was when I answered WB9PXE's call (his freq) and after sending my xchange, heard a verrrrrry faint station calling me. With his sig being so weak there was no way I was going to ask him to qsy. So I paused to see if PXE was going to start calling CQ test again. He didn't. But just couldn't pull who_ever thru the static crashes, so after 2-3 minutes of this I said 'WB9PXE, ga es TU'. To my amazement he had stood by all this time to allow me to work the calling station! Now, folks, we all know that this is a contest..and,hey..I wouldn't have blamed anyone for NOT standing by. Well, after 20 or so years of QRPP Op, this just confirmed that we may have little sigs, but sure are big on manners<g>.

13,545 pts (15 spc/32q's) NorCal40a/Argo 515/G5Rv/GelCell/EK-1 paddle/keyer.

72,

Dennis,WR4i, ARCI #4281

Chapel Hill,NC

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>
Subject: [7226] help with mid 20's wpm plateau
Message-ID: <9604170047.AA01339@wizard.ucs.sfu.ca>

Hi Everyone,

I'm looking for suggestions as to how to overcome my mid 20 wpm plateau. I'm at the stage where I need to increase my ability to hear a string of characters as a word, rather than hearing a string of letters and then translating that into a word. I find that I am able to recognize some of the common words as a whole, but with some by the time I figure out what the letters have spelled, I have missed part of the next word etc. In order to avoid going over old ground again, I recall the following methods from this or other reflectors.

1. During defined practice times, write down all the letters and circle each one.
2. Write them all down. (as per Chuck)
3. Using a program such as rufz to learn to automatically type the character without thinking what the character is.

In addition to these, I think I am looking for a program that will send the words at 30+ wpm, but will allow longer spacing between the words. Does anyone know of a program like this, or have other suggestions, other than practice and more practice? My living space is small enough so that I have a rig on most of the time, and am listening to cw in the background most of the time. My goal is to be conversational at around the 30wpm level within the next 6-8 months. Any help would be greatly appreciated.

cheers, Paul
ve7cqq
email: paul1@wizard.ucs.sfu.ca

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: aa0qx@ix.netcom.com (Austin McCaskill, Jr.)
Subject: [7175] Holes in Altoids boxes
Message-ID: <199604160348.UAA00891@dfw-ix2.ix.netcom.com>

I used a hole punch for paper and it worked well for all the connectors. For a larger one, I simply nicked out the edges.

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [7206] Is the band dead, or is it only sleeping? (was Re: 40M)
Message-ID: <Roam.3.0.829681514.15377.myers@bigboy>

Several years ago, I only had a 10m vertical up and I would often tune around 10m when no one else was interested. One evening, around 5pm Pacific time, I noticed that the band noise floor was up a little and I could hear a few CBers at 28.015MHz, but there was absolutely no amateur activity that I could hear.

So, for giggles, I called CQ for quite a long time at 28.014MHz (the CBers were running LSB). I don't have a memory keyer, just an old MFJ Curtis 8044 thingy with Ham-Key HK-1 paddles. Sometimes I squeeze key for fun...

I nearly fell out of my chair when T32BE answered my long and annoying CQ. Paul, WC5P, was on Christmas Island, just getting set up, and said I was his first contact. We had a nice little ragchew in CW and, though I'm not a QSL collector, I even have the T32BE card now. I wasn't running QRP, but, hey, it was cool.

Dana

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>
Subject: [7212] Norcal
Message-ID: <638BA51B26@iunhaw1.iun.indiana.edu>

I read in the digest this morning that 49er stuff was in the Norcal page (from Doug). I also read where people were having problems getting into the page. SO DID I!!!

Then I got it. I use Netscape Navigator 2.0. When I do a netsearch, I get a page that asks me if I want Yahoo, Excite or several others. Actually I was glad to see this as I have been trying to chase a page down on Yahoo. Anyhow, one page is called "Infoseek Guide". Go to this and in the little box put in "qrp". Then press "search", "seek or whatever it is. Under this heading, the 29th listing is Norcal.

When you get the Norcal home page, look to the right. Mine was not all there but I saw enough to know it was about the 49er mods. I

clicked it and now have a 22 page document about 49er mods. I also read KJ5VW's 49er construction page. Nice pix.

I agree with Doug. The stuff about the 49er was well done. Now I have Norcal as a "Bookmark" so it will be easier to get to them.

If I get home tonight and I have the B board in the mail, I know what I will be doing tomorrow-----building.

Have thought about taking the A board and converting it for elsewhere. Didn't I see something here about a "89-er"????

72 de WB9NLZ

Timothy A. Stabler, Ph.D.
Department of Biology
Indiana University Northwest
Gary, IN 46408

(219)980-6718
FAX: (219)980-7125

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Alan Kaul <kaul@netcom.com>
Subject: [7198] NOrcal Site on the WWW
Message-ID: <Pine.3.89.9604161034.A17230-0100000@netcom13>

JParker did an outstanding job. Kudos. And kudos also to Doug, KI6DS, and the others who provided material. The content is terrific. The photos aren;t bad either. VERY WELL DONE>
72/73 de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
Subject: [7210] Norcal WEBSITE
Message-ID: <Pine.SOL.3.91.960416152913.28608C-1000000@destrier.acsu.buffalo.edu>

<http://www.fix.net/~jparker/norcal.html/>

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
jskalski@acsu.Buffalo.EDU

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "Jerry L. Bartachek" <jbartac@max.state.ia.us>
Subject: [7187] Paragon QRP Modification - Help!
Message-ID: <3173D167.4866@max.state.ia.us>

de Jerry KD0CA

Guys, I'm having a terrible time trying to make the QRP mod to my paragon. It is an old one about serial # 00385 or so, and the 2nd mixer board is NOT exactly like the picture in the manual!!! :-(

I can't seem to locate R44 to put a 10K resistor in parallel with it. It's not where pictured in my manual!

Most of the 2nd mixer PCB looks like the pix in the manual, but the area near u1, the arrangement of screwdriver adjustment pots, and the location of some of the wiring connectors is very different! My pots are in a different location, and many of the resistors, capacitors and diodes are NOT as pictured.

Using the manual picture as a guide, while standing with my tummy near the front panel, the rig on its back with the bottom covers off, R44 should be on the far side of u1 parallel to an imaginary line thru pins 1 and 8. But there is NO RESISTOR THERE! Also I see several other 100K resistors round abouts that corner of the board, but which one is R44??

Not to be daunted, I turned the 2nd mixer board pot that controls the maximum Ic to the finals, and found I could reduct the power to QRP proportions! Now I can get about 4 watts on 160, 40, & 30 meters, and about 3 watts on 20 m and above at the minimum RF drive control setting. 80 meters, has a minimum of about 5 or 6 watts minimum (must be the hottest band in the rig) so I will use the QRP + on 80 meters and not the Paragon.

My maximum power is about 35 to 40 watts wide open now, but up to 60 watts on 80 meters. That's not too bad, but I wish I could get the rig

to do as the "official" mod does: < 5 W to 100 W with the front panel drive control.

Let me know if you have any special hints to help me.

QRP 72's,
Jerry KD0CA

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: BERGESON@ppcc.colorado.edu
Subject: [7192] QRP Plus for Sale
Message-ID: <01I3LU3DN4WY000Z9N@VAXF.COLORADO.EDU>

FOR SALE: QRP Plus transceiver. New & unused. I have the book,
box, power cord, and microphone. \$550,00.

Hal Bergeson, W0MXY, Colorado Springs, CO
(719) 471-0238

I'd prefer that responses from interested parties come
via telephone, evenings after 8:30 PM MDT.

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Gregory Sachs <commodore@sympatico.ca>
Subject: [7234] QRP-L Mail
Message-ID: <199604170224.VAA25397@smtp1.sympatico.ca>

Subscribe QRP-L

commodore@sympatico.ca

thanks, Gregory

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: NYOUNG@nova.wright.edu
Subject: [7219] RAC Counter/Digital Dial kit
Message-ID: <01I3MCBOGDCY8WZLN9@nova.wright.edu>

Someone asked me to send them the info on Radio Adventures Co(rp). So here's the deal: The 6-digit frequency counter/digital dial kit is two pieces. One's the counter board itself. The other is the display board kit. Each is about \$30 with about \$4 s&h. The address for RAC is:

Radio Adventures Corp
R.D.#4 Box 240 Summit Drive
Franklin, PA 16323
FAX 814-677-6456
VOX 814-677-7221
email: rac@usa.net

I finished off the counter display kit today. It was easy. No one had to keep me away from the axe and the gun is empty. I do have to say that the boards are really close work. The board for the display (like the board for the counter) is solder masked and locations of parts are screened. The instructions so far have been pretty much easy to understand. They do note in the instructions for the display board that the push-button switch layout on the board is wrong. The switches are 90 degrees out of proper rotation. It would have been nice -- and, no I did read the instructions before I soldered the switches in -- if the note about proper placement had been underlined or stated early on in that instruction paragraph.

Tomorrow -- maybe -- I'll work on some of the counter board and see how much fun that is. I need a very small point soldering iron to do this next stage. I guess I better find that piece of brazing rod that I had.

So far, so good. Details at 11 (or later, depending...)

73
Nils
WB8IJN +c

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [7180] Shipping
Message-ID: <199604160540.FAA02409@chuck.dallas.sgi.com>

In reference to Doug's posting on shipping times. His "priority" 2nd day bright red package dated April 9th arrived April 14th. Doug and I exchanged several phone calls each day as I walked to the PO and checked (hey, I'm working on walking 30 miles

per week for Dayton) and returned empty handed.

The local postmaster will hear about it for sure. They have paperwork and they have the forms. :-) \$3 just doesn't buy what it used to. :-)

dit dit

--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: bfollett@ditell.com
Subject: [7224] Shipping Times II
Message-ID: <199604170027.SAA21204@orion.ditell.com>

Gang:

For those that like statistics on our wonderful Postal Service (Sorry non-USA folk), My tuner was postmarked April 11th, and arrived April 15th. That includes a weekend, so I guess I could call it two business days....

73, Bob

Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 Home Office E-mail: bfollett.ditell.com

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: KC7FYS@aol.com
Subject: [7191] Slow-learner's question
Message-ID: <960416122724_273220457@emout07.mail.aol.com>

So, after you make fun of me for not knowing...

What is a sidetone?

Please email your reply,
Thank you 73
Jonathan kc7fys

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: launerb@crl.com (William H. Launer)
Subject: [7230] Solar Panels
Message-ID: <v01520d02ad99ed82ba2b@[192.0.2.1]>

Hi, Gang

After seeing Jerry Flanders' posting, and subsequent contact with him, I did some www searching for solar cell information. I found a good description of Photovoltaic Cell operation at:

http://huizen.dds.nl/~hasse_m/2.htm

It describes how a cell is constructed, and the cell electrical characteristics.

For those of you who want to purchase solar panels at a hamfest or flea market, I recommend that you take a pocket VOM with you. There are two measurements to make:

- (1) Open circuit voltage (Voc), and
- (2) Short circuit current (Isc).

These measurements should be made with the panel pointed directly at the sun. Neither test will harm the panel. If the seller refuses to let you perform the tests, then "NO SALE", and walk away!

Voc should be 20-30% higher than your desired operating voltage, and Isc should be 10-15% higher than the seller claims the panel will produce at some operating voltage. The maximum power that a panel can produce will be at a point approximately $0.75 \text{ Voc} \times 0.85 \text{ Isc}$. This may vary with the cell type (crystalline or amorphous), because the E-I characteristic curves may be somewhat different.

72/73,

Bill wb0cld

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-1 #279 qrp arci #3551

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Jim.Nestor@ey.com
Subject: [7185] Solder
Message-ID: <0014500002804131000002*@MHS>

Homebrewers Extroidinaire,

Have recently seen references to the benefits of using solder with 2% silver content for PC Board projects. Guess I need some "edjakating" on that subject.

A couple of years ago, I bought a big roll of Chemaloy 60/40 x .031 solder. The guy who sold it to me said that solder was going "lead free" and would never be the same so I'd better stock up.

Just for grins, I also bought a small amount of "lead free" .031 solder, don't remember the rest of the specs. Noticed that the stuff seemed hard to melt, so I've stuck with the Chemaloy. And it seems to have worked just fine.

Eventually, this big roll is going to be gone and I'll need some new solder. Since I saw the references to 2% silver content, this may be a good time to switch.

That said, can anybody give me the specifics such as brand name and number so I can go off in search of this magic stuff. That is a lead-in to a general complaint that it's getting harder and harder to find pieces/parts and stuff like solder other than the junk from Radio Shack. I spend so much time and money at RS that the manager calls me "Mister Nestor". Bummers!

73/72/60/40,

Jim, WK8G/2
jim.nestor@ey.com

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Doug Hendricks <ki6ds@telis.org>
Subject: [7179] St. Louis Tuner Shipping Progress
Message-ID: <31732DCB.2637@telis.org>

I shipped Tuners 79 through 93 today. It looks like I will be able to do 12 per day. I have a day job and a night one too, on two evenings a

week. Oh, I am a little embarrassed. I shipped 43 kits without a pcboard, but I mailed them all today. If you get a kit without a pcboard, please let me know if you don't receive it by next week.

One comment about the US Post Office. I am shipping all kits via Priority Mail. It is advertised as 2-3 day service. Chuck's kit took 5 days to Dallas. Dave Gauding's took 6 days to St. Louis. That is horrible service. I can't do anything about it, but if you know a congressman, let him know about it. 72, Doug

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Bill Howell <bhowell@mail.utexas.edu>
Subject: [7223] Sunday static on 30m?
Message-ID: <199604170019.TAA16610@mail.utexas.edu>

I was using my Explorer II in the hill country near Austin last Sunday.

No houses or power lines around. Set up on picnic table, running off of a gell cell. I was getting gobs of qrn, which I don't remember ever getting when using the rig from the house.

I was wondering if anyone else experienced this on 30. There were no thunderboomers in the local area, although it was Mighty windy.

Could it have been static building on the dipole, with no where to go (I wasn't using any sort of ground)?

I always remember 30 being sooo quiet!

Bill Howell
University of Texas at Austin
Performing Arts Center
Electronic Maintenance
voice: (512) 471-1388
bhowell@mail.utexas.edu

N5ALO QRP-L #415

^^^^^^^^^^^^^^^^^^^^

goo goo g'joob

^^^^^^^^^^^^^^^^^^^^

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Mike Robinson <miker@cc.com>
Subject: [7190] Tax deductible membership
Message-ID: <9604161526.AA21124@voder.nsc.com>

>
> Kudos to jparker and the NORCAL gang. I think I'm gonna spring for a
> membership. Gee I wonder if it's tax deductible :-))
>

Everything is tax deductible.
Sometimes the IRS doesn't agree with you.

=====

NCARC Superfest, June 1st, Larimer County Fairgrounds, Colorado		
=====		
7.3 de Michael AA0UB	miker@cc.com	michael@frii.com
http://www.frii.com/~michael		
QRP-L #126	Norcal #857	CQC #180
=====		

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Steven Pituch <n2mnn@openix.com>
Subject: [7215] US Priority Mail
Message-ID: <199604162207.SAA21665@pantera.openix.com>

I learned something new about "Priority" mail last Saturday. I needed to mail some papers to someone who lives about 30 miles away in the NYC metropolitan area. When I got to the Post Office I found out the 2 lbs for \$2 was now \$3. In addition, when I asked the person behind the counter if the package would get delivered by Tuesday (4 days), she said that it was not guaranteed. For that, she said, you must use "Express" mail which costs over 10 bucks. I'd rather wait the extra few days for my St. Louis tuner.

I thank all the NorCal people involved in the project for your unselfish efforts. It is really appreciated!

Steve, N2MNN

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Jim Stafford-W4QO <w4qo@america.net>

Subject: [7199] Re: 20M-OPEN LATE TO SERVE YOU
Message-ID: <Pine.SV4.3.91.960416133931.16885A-100000@atl1>

And to think, we are at the absolute bottom of the sunspot cycle per the latest ARRL letter. April-June appears to be the bottom. If this is what HR is like now, ain't it great!

73/72/jim/w4qo

On Thu, 11 Apr 1996, David Kreinberg wrote:

>
> Gang:
>
> I've noticed 20 staying open to about 9pm
> local time every night for a week (except
> Wednesday). With the R5 and abt 2 watts out
> of my MFJ-9020, I've been getting many good
> reports.
>
> 73 de Dave AC5GY
>
>
>

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: rossi@VFL.Paramax.COM (Pete Rossi)
Subject: [7200] Re: 20M-OPEN LATE TO SERVE YOU
Message-ID: <9604161801.AA06333@gvlf6-a>

> Gang:
>
> I've noticed 20 staying open to about 9pm
> local time every night for a week (except
> Wednesday). With the R5 and abt 2 watts out
> of my MFJ-9020, I've been getting many good
> reports.
>
> 73 de Dave AC5GY

This is very typical of 20 meters this time of year - sunspots or no sunspots. Look for over-the-pole openings into Asia too. It gets even better when there are more sunspots to work with.

Pete Rossi - WA3NNA
rossi@vfl.paramax.com

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: moyle@essc.psu.edu (Alfred M. Moyle)
Subject: [7205] Re: 40M
Message-ID: <9604161858.AA02007@seismic.geosc.psu.edu>

>So what's the point (for that need such things), if you don't
>hear activity then generate it. Not to extremes mind you 'cuz
>10M at 1 in the morning may be going too far. :-) And I knew
>30M was not in the running.
>

Same thing happened to me this morning. Turned the QRP+ on and tuned through the bottom of 40 ... the band sounded dead. Found a weak signal at about 7.004 which turned out to be ZL2AGY, Tony ... calling his guts out (as a buddy of mine says) with no takers. Got him on the second call, 449 for me to 559 for him. Not bad for 5 watts to an antenna that doesn't work (G5RV up as an inverted vee, apex at about 50 ft with an included angle of about 90 deg ... which isn't supposed to be much of a DX antenna) :-). My best QRP DX, so far. Is this stuff great, or what?

72,
Al Moyle N3KFL

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: [7188] RE: Boxes
Message-ID: <39841.owen@apollo.eeel.nist.gov>

In message Tue, 16 Apr 1996 09:36:13 CST,
"Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu> writes:

>
> Everybody talks about putting it in an Altoids box and I have two
> right here waiting for me to use them. Do you have your Altoids box?
>
> If not, Walgreen's has them on sale this week. Normally they are
> \$1.99 a box. This week, they are 2 for \$3.
>

Price Club has them for 12 for \$13.99 and CVS Drug Stores had them on sale at \$1.29. Got mine--now my wife is hooked--guess I better look for MANY other SMALL projects. 72/73 Jim K4CGY qrp-l #72

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "Jim Kortge, NU8N" <jokortge@tir.com>
Subject: [7222] Re: Cascade questions
Message-ID: <1.5.4.16.19960417000416.2237982a@mail.tir.com>

At 12:45 PM 4/16/96 -0400, you wrote:

<snip>

>I got pretty concerned about the mistake called out in the circuit
>board by the author. I don't recall seeing anything about that in the
>DOCs I had gathered by the end of '95 and since then I have been
> postponed from the list so I really need to catch up.

Steve...the PC board mistake isn't a problem unless the Cascade is going to be configured for 40 and 17 meter operation. I'd guess that's why nobody caught it until I worked out the mods for actually putting the rig on those bands.

I'll try to help you if you have any specific problems. Otherwise, the QRPp article is accurate. I have additional mods that I made to my rig which I think further improves the performance, and I'd be happy to share that info with you and others.

72...Jim

Jim Kortge, NU8N		BMHA, NorCal, QRP-L
jokortge@tir.com	__o	Cascade 17/40 SSB
Fenton, MI	_'\<	Mizuho 17/40 SSB
...	(*)/(*)	...

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: torell@sicom.com (Kent Torell)
Subject: [7211] Re: Diplexers?
Message-ID: <v02130502ad99a38007a5@[192.91.202.41]>

This circuit is for a constant impedance bandpass filter. Most filters present a nasty (short or open) impedance out-of-band, which isn't nice for passive mixers. This one presents a constant 50 ohms, but is only a two-pole response. Mini-Circuits has a line of these at some standard frequencies, with a 37% bandwidth, at around \$15.

Bw = passband/center freq (fractional bandwidth)
 Fo = 1/(2*pi*sqrt(L*C)) (center frequency in Hz)
 Wo = 2*pi*Fo (center freq in radians/sec)
 Wo*L = 1/(Wo*C) = R/Bw (reactance of L and C is a fnct of Bndwdth)

The diagram illustrates a differential pair circuit. It consists of two input nodes, L and C, and two output nodes, R. The inputs are connected to ground through capacitors. The outputs are connected to ground through capacitors. The circuit is symmetrical.

Kent Torell torell@sicom.com 602-483-2867 x40
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "Jerry L. Bartachek" <jbartac@max.state.ia.us>
Subject: [7196] RE: EM1KA on 30 Meters
Message-ID: <3173F1DE.1279@max.state.ia.us>

Every once in a while, I hear an exotic call like that and I may try to establish contact. Several times I was surprised to find out that I only THOUGHT it was exotic, and the actual letter(s) was/were sent badly spaced and it turned out to be a common prefix!

Could this in reality have been W1KA?? [dit dah-dah = di-dah-dah ?]

72,
Jerry KD0CA

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>
Subject: [7231] Re: FCC Ruling
Message-ID: <9604170142.AA02168@wizard.ucs.sfu.ca>

>
> Gang:
>
> Without Comment...
>
> <<"Save our souls," already all but forgotten, has finally joined the archives
> of wireless history. The Federal Communications Commission (FCC) last Friday
> eliminated the requirements that ships carry a manual Morse code
> radiotelegraph.>>

Thanks for the news Bob, even though it is bad. Hopefully many will realize that any contingency planning that only includes that which is required is foolish. I must confess that I am not very optimistic.

I wonder, in their cost benefit analysis, how many lives were considered expendable?

cheers, Paul
ve7cqk
email: paul1@wizard.ucs.sfu.ca

>
> 73, Bob

> -----
> Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10
> 2861 Estates Dr. VOICE: 801.649.6457
> Park City, UT 84060 Home Office E-mail: bfollett.ditell.com
>
>
>

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "David E. Shelton" <deshel01@homer.louisville.edu>
Subject: [7203] Re: NOrcal Site on the WWW
Message-ID: <Pine.OSF.3.91.960416142219.8872A-100000@homer.louisville.edu>

Alan,

I, like many others do not know what the NorCal WWW page looks like,
because I do not know the URL address??? Please reply to me or the QRP-L
with the URL address of NorCal page. Tnx vy much es 73/72.

David E. Shelton RN, BSN | Amateur Radio CW/QRP op KE4FPS
University of Louisville, | QRP ARCI #9079 FISTS #2103 QRP-L #142
School of Nursing | Accuracy Transcends Speed,
deshel01@homer.louisville.edu | Courtesy At All Times

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Alan Kaul <kaul@netcom.com>
Subject: [7214] Re: NOrcal Site on the WWW
Message-ID: <Pine.3.89.9604161407.A14113-0100000@netcom7>

On Tue, 16 Apr 1996, David E. Shelton wrote:

> Alan,
>
> I, like many others do not know what the NorCal WWW page looks like,
> because I do not know the URL address??? Please reply to me or the QRP-L
> with the URL address of NorCal page. Tnx vy much es 73/72.
>
David and others needing URL info:::

try <http://www.fix.net/~jparker/norcal.html>

Then click on the 40-9er mods.

It's well worth the visit.

73/72 de alan, W6RCL <<<kaul@netcom.com>>>

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: ROYGREGSON@aol.com
Subject: [7182] Re: Re>gell cells/nicads
Message-ID: <960416015731_192023468@emout08.mail.aol.com>

Mike;

Yes there is a parrallel to ham radio with the electric flying RC models in this case. I had forgot to mention that the cell we use have a special marking for the fast discharge, and high rate recharge. I use a 7 cell pack of sub "C" cells, but they have a special marking. Cannot remember if it was "CD" or "HD" something like that. My stuff is all packed away, so cannot look it up. Seems like there are many of us on here, that's gratifying. CUL Roy

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [7194] Re: Slow-learner's question
Message-ID: <199604161658.QAA03351@chuck.dallas.sgi.com>

Jonathan,

No one is/should make fun of you. It is a good question. I'll take a stab at it and the rest of the group can correct me afterwards.

When one tranmits during a QSO using CW there is a need to have the same thing generated so that you can monitor what you are sending. There are several methods for doing this.

1. You can use the tone that is generated by the keyer and it's speaker if it has one. If the transmitter/receiver or transceiver has it's own method of monitoring, then you will usually disable the speaker of the keyer. I do this

all the time without consciously thinking about it. That makes me think I've been doing this too long. :-) Like driving a car and just subconsciously doing things without exerting mental effort.

2. Small QRP rigs will use the receiver to directly monitor the transmitted signal by feeding back a small portion of the energy into the frontend of the receiver. This is done a lot in the NN1G series of rigs.
3. Other rigs will disable the receiver and insert a tone (preferably an adjustable frequency and volume that is pure and clean on startup etc.) into the audio amp stage to have it magically heard in the speaker/earphones. This is where the term sidetone comes in. Another circuit, on the side so to speak, separate from the receiver essentials and transmitter follows the keying and allows the operator to effectively follow what he/she is sending.

Now the discussions can begin as to which is better. :-)
I only want three things --- 1. a good receiver, 2. a clean signal out with no harmonics, and 3. a way to monitor my keying so that I can send iii when I make an error. I never could send the exact number of dits for an error sign. :-)

You probably saw the posts regarding the 40-9er rig. This rig is a DC receiver and the transmitter transmits on the same freq, thus you don't hear the transmitted signal except as a buzz or high pitched tone as some have described it. So the mods are gonna come outta the group fast and furious to get the best and cheapest way to monitor the transmission.

Hope this helps. It is by no means complete. A book could be written on all the ways, advantages and disadvantages of each in performance and cost and implementation these techniques can be and are used.

dit dit

--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Stan Skelton <sskelton@cIn.etc.bc.ca>
Subject: [7197] Re: Slow-learner's question

Message-ID: <Pine.3.89.9604161035.A3392-0100000@sparky>

Don't worry about asking about that, let me tell you my story!..I had just finished my first kit (OHR Sprint 80) and had several QSO's with it when I found out that I should have adjusted a pot in it to give me a "sidetone" (the tone you hear when you key the rig when sending CW). I had always thought "wow this CW stuff would be much easier if I could only hear what I was sending!" Now I have a sidetone and it's a breeze! TtFn....Stan T.M. VE7 SKT QRP-L #34

On Tue, 16 Apr 1996 KC7FYS@aol.com wrote:

> So, after you make fun of me for not knowing...
>
> What is a sidetone?
>
> Please email your reply,
> Thank you 73
> Jonathan kc7fys
>
>

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Wayne Barnhart <wayneb@on-ramp.ior.com>
Subject: [7218] Re: Slow-learner's question
Message-ID: <Pine.LNX.3.91.960416160053.16150A-100000@on-ramp.ior.com>

On Tue, 16 Apr 1996 KC7FYS@aol.com wrote:

> So, after you make fun of me for not knowing...
>
> What is a sidetone?
>

Not such a bad question. If you press the key down and you have power out according to the meter you don't have any side tone. If however you do hear a pleasant audio tone then you do. Side tone allows you to monitor your keying.

I am thinking of pulling a line off key line on the 49-er and feeding it to a 555 chip to produce some kinda side tone but that may be thinking too simplistic. Havn't looked at it that hard yet.

Wayne WB7WHI

Spokane, Wa.

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [7220] Re: Slow-learner's question
Message-ID: <Roam.3.0.829697185.12034.myers@bigboy>

Wayne Barnhart wrote:

> I am thinking of pulling a line off key line on the 49-er and feeding it
> to a 555 chip to produce some kinda side tone but that may be thinking too
> simplistic. Havn't looked at it that hard yet.

If you think you're going to be building a number of little transmitter projects and don't want to have to bother to either build in or or hook up a sidetone oscillator to every project, you might think about building an RF-sensed sidetone oscillator. For QRP levels, you may need to use a lot of gain in the RF sensing portion and/or couple the rf sense probe (i.e., little antenna wire) very near the transmitter in use.

Alternatively, you can build a sidetone box that plugs in between your key and the radio, though be careful how you do this since some radios (tube radios in many cases) use some pretty high and/or negative voltages on the keying line.

555 times make OK sidetones, but a twin-t oscillator usually sounds a lot better ;-)

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: ssalgaller@ccgate.hac.com
Subject: [7217] re: Solar Panel Information
Message-ID: <9603168296.AA829694438@CCGATE.HAC.COM>

Dear qrp-l,

If anyone is interested in solar energy, it would be worth sending for the catalog from SUNELCO.

Their catalog not only has merchandise for sale, but they also have photos of actual installations and engineering data.

For example, the post where Ernie (AA1IK) asks why there are

two maximum current specs on his solar panel has a possible answer in the catalog:

When solar cells get hot, their efficiency drops. Thus a panel has a set of specs at 25'C (room temp.), and one at typical roof operating temp. (50 or 75'C).

So you would know what to expect if you tested a panel on your bench, or had a panel charging your station battery.

This brings up an interesting example: SUNELCO is in Montana, and it can get very cold there! Sometimes their panels are putting out much more than the spec sheet says.

Stephen S.
WA3ZGT
salgaller@ccgate.hac.com

PS: SUNELCO
100 Skeeles St.
Hamelton, MT 59840
(800) 338-6844
(the catalog is \$5)
(Usual Disclaimer Applies)

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "David D. Meacham" <ddm@datatamers.com>
Subject: [7202] Re: Solder
Message-ID: <Pine.LNX.3.91.960416112018.2214B-100000@dt1.datatamers.com>

Jim,
Kester calls it "Sn62".
72, Dave, W6EMD

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Raymond Sommers <rsommers@worf.uwsp.edu>
Subject: [7174] RE: Soldering Fe tips
Message-ID: <Pine.BSI.3.91.960415222341.19693A-100000@worf.uwsp.edu>

My iron has 6-32 threads. I thread pieces of brass brazing rod with a 6-32 die. Also just ordered a number of 6-32 tips from American Science and

Surplus. Gave my catalog away but they have a URL:

Linkname: American Science & Surplus

Filename: <http://www.sciplus.com/>

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| | | | |
|/\| |_) (/ the | ,ittle | \ ilowatt \ , uster (Wisc.)
~ ~ ~ ~ ~
Ray Sommers, rsommers@worf.uwsp.edu
WB9LKC QRP-L #8-) qrp ARCI #3816 NorCal #1423

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: ae4ic@nr.infi.net (BOB KELLOGG)
Subject: [7184] Re: St. Louis Tuner Shipping Progress
Message-ID: <199604161328.JAA09153@mh004.infi.net>

Doug,

I got my St. Louis tuner kit here in N.C. two days after you mailed them.
I'm delighted with it, it looks like a great project. Starting on it today!

Many thanks for all the work you and the others have put into this project.

CUL,
Bob Kellogg, AE4IC
Prolably, but not nececelery. - Benny Hill

From owner-qrp-l@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: Allen Jones <ajones@adsnet.com>
Subject: [7207] Re: St. Louis Tuner Shipping Progress
Message-ID: <199604161925.0AA00178@alice.adsnet.com>

0At 10:19 PM 4/15/96 -0700, you wrote:

>

>One comment about the US Post Office. I am shipping all kits via
>Priority Mail. It is advertised as 2-3 day service. Chuck's kit took 5
>days to Dallas. Dave Gauding's took 6 days to St. Louis. That is
>horrible service. I can't do anything about it, but if you know a
>congressmen, let him know about it. 72, Doug

Hello Doug . . . St. Louis Tuner arrived in in the wilds of NW Indiana, 50 mi from Chicago, in 4 days. :-) Great job in packaging the kit! The PC board should show near the end of the week.

Thanks much and 73 . . . de Allen, K9DZE

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "Mark E. Monninger" <markem@primenet.com>
Subject: [7208] Re: St. Louis Tuner Shipping Progress
Message-ID: <Pine.BSD.3.91.960416122726.22388A-1000000@usr6.primenet.com>

I received mine yesterday in Phoenix (well, close to Phoenix, anyway). I think I was number 60-something. I didn't look to see if the PCB was there.

Looks like a nifty little unit. Of course, what else would we expect from the NorCal crew?

73... Mark AA7TA

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>
Subject: [7227] Re: Sunday static on 30m?
Message-ID: <Roam.3.0.829702945.17444.myers@bigboy>

> I was using my Explorer II in the hill country near Austin last Sunday.
>
> No houses or power lines around. Set up on picnic table, running off of
> a gell cell. I was getting gobs of qrn, which I don't remember ever
> getting when using the rig from the house.
>
> I was wondering if anyone else experienced this on 30. There were no
> thunderboomers in the local area, although it was Mighty windy.
>
> Could it have been static building on the dipole, with no where to go
> (I wasn't using any sort of ground)?

Certainly you could be building a static charge on the antenna/radio and the electrons escaping from the ends of the antenna can cause what you describe. I've also experienced something very similar while operating mobile HF - when I stop, the problem goes away.

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: jgann@mindspring.com (Alvin G. Gann)
Subject: [7228] Re: US Priority Mail
Message-ID: <199604170110.VAA20438@borg.mindspring.com>

FYI: Priority mail is just the same handling as first class but for small packages. The time is highly variable. I find it takes two-three days from here to New England (~1000 mi.) or to Charlotte (~200 mi.) or to Knoxville (~100 mi.) but overnight reliably to Atlanta where all our mail (NW GA nr. Chattanooga) goes for assignment to the snails. If the snail dies, it can take semi-forever.

Express mail is the USPS' attempt to compete with Fed-Ex, et. al. and may actually go by carrier pigeon rather than snail.

73/72 --Jerry W1UI

From owner-qrp-1@Lehigh.EDU Tue Apr 16 22:15:22 1996
From: dedinger@ix.netcom.com (Dennis Edinger)
Subject: [7204] RE: Whiterook mini Keyer/Paddle MK-88
Message-ID: <199604161838.LAA15666@dfw-ix9.ix.netcom.com>

You can get this 2.2 oz (battery weight included) from

Whiterook Products Company
309 S. Brookshire Ave.
Venture, CA 93003
(805) 339-0702

It comes completely assembled, post paid, for \$59 as I recall. It is a qrp gem. With it, a 49er (you'll have to add a sidetone to the basic design) and the tuned antenna of your choice, you can put your entire ham shack in your jacket! Aint qrp neat.

72/3

de Dennis/NT0L